

Meredeth Rhoades

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EDUCATION

University of Delaware

College of Engineering

Bachelor of Biomedical Engineering

Major: *Biomedical Engineering*

Minor: *Biomechanical Engineering*

GPA: 3.38

Relevant Coursework: Analytic Geometry & Calculus, General Chemistry, Introductory Biology I, Fundamentals of Physics, Circuits and Signals, Quantitative Cellular Physiology I, Medical Device Design

Newark, DE

May 2026

SKILLS

- Software: JMP Pro 17, Python, Microsoft Office, Mathematica, Origin, Capstone, SolidWorks, Qualysis Track Manager, Freeform
- Languages: English - Native, Spanish - Intermediate

RELEVANT EXPERIENCE

Wearable Assistive Device

Team Member

- Collaborate with team partners to ensure the timely completion of goals at each weekly meeting
- Conduct extensive independent research on current assistive wearable devices and potential areas of improvement
- Design, prototype, and build an assistive device custom-designed for the user

Newark, DE

July 2024 - Present

Analysis of the Load on the Achilles Tendon

Assistant

- Collect motion capture data for healthy individuals using a 12-camera system and in-ground force plates
- Apply a shear wave tensiometer to the participant's Achilles tendon to gauge muscle-tendon loads during movement
- Operate the Qualysis Track Manager program to perform data cleaning and complete the QTM file for MATLAB

Newark, DE

October 2024 - Present

Mechanical Testing Device for Lab-Grown Tissue

Undergraduate Researcher

- Aid in designing a 3D negative mold, tissue holder, and device for cyclic testing
- Laser cut and 3D print models built in SolidWorks

Newark, DE

October 2024 - Present

ACTIVITIES

Biomedical Engineering Society

Member

- Attended club events and meetings to maintain connections with the members
- Participated in interactive presentations and workshops held by local biomedical engineering professionals

Newark, DE

August 2023 - Present

Assistive Medical Technologies

Member

- Design, prototype, and assemble assistive devices for children with disabilities
- Modeled and built a collapsible high chair to stabilize a child with a neuromuscular disability

Newark, DE

February 2024 - May 2024